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## In the Claims

Amendments to the Claims:

1. (currently amended) A method of forming small features, comprising the steps of:

providing a substrate having a dielectric layer formed thereover;

forming a spacing layer over the dielectric layer; the spacing layer having a 5 thickness equal to the thickness of the small feature to be formed;

forming a patterned, re-flowable masking layer over the spacing layer; the masking layer having a first opening with a width "L"; wherein the re-flowable masking layer is comprised of an oxide;

re-flowing the patterned, re-flowable masking layer to form a patterned, reflowed masking layer having a re-flowed first opening with a lower width "l"; the re-flowed first opening lower width "I" being less than the pre-re-flowed first opening width "L";

etching the spacing layer to the dielectric layer using the patterned, reflowed masking layer as a mask to form a second opening within the etched spacing layer having a width equal to the re-flowed first opening lower width "l";

removing the patterned, re-flowed masking layer;

forming a small feature material within the second opening;

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removing any excess small feature material above the etched spacing layer;

and

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removing the etched spacing layer to form the small feature comprised of the

small feature material.

2. (original) The method of claim 1, wherein the substrate is formed of a material

selected from the group consisting of silicon and silicon germanium; the dielectric

layer is formed of a material selected from the group consisting of grown silicon

oxide and deposited silicon oxide; the spacing layer is formed of a material selected

from the group consisting of silicon nitride and silicon oxynitride; the masking

layer is formed of doped oxide; and the small feature material is formed of a

material selected from the group consisting of polysilicon, polysilicon germanium

(poly SiGe), titanium, molybdenum, nickel and stacks comprised of the above

materials.

3. (original) The method of claim 1, wherein the substrate is formed of silicon; the

dielectric layer is formed of silicon oxide; the spacing layer is formed of silicon

nitride; the masking layer is formed of a doped oxide; and the small feature

material is formed of polysilicon.

4. (original) The method of claim 1, wherein the pre-re-flowed first opening width

"L" has a width of from about 1000 to 1800Å and the re-flowed first opening lower

width "1" has a width of from about 200 to 800Å.

5. (original) The method of claim 1, wherein the pre-re-flowed first opening width

"L" has a width of from about 1200 to 1500Å and the re-flowed first opening lower

width "I" has a width of from about 250 to 800Å.

6. (original) The method of claim 1, wherein the dielectric layer is from about 15 to

100Å thick; and the masking layer is from about 400 to 2000Å thick.

7. (original) The method of claim 1, wherein the dielectric layer is from about 20 to

50Å thick; and the masking layer is from about 1000 to 1500Å thick.

8. (original) The method of claim 1, including the step of forming a gate dielectric

layer liner within the second opening.

9. (original) The method of claim 1, including the step of forming a gate dielectric

layer liner within the second opening; the gate dielectric layer being formed of a

material selected from the group consisting of silicon oxide, nitrided silicon oxide, a

silicon oxide/nitride stack and a high-k dielectric material such as aluminum oxide.

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10. (currently amended) The method of claim 1, including the step of forming a gate

dielectric layer liner within the second opening; the gate dielectric layer liner

having an equivalent oxide thickness (EOT) thickness of from about 7 to 20Å.

11. (currently amended) The method of claim 1, including the step of forming a gate

dielectric layer liner within the second opening; the gate dielectric layer liner

having an equivalent oxide thickness (EOT) thickness of from about 10 to 16Å.

12. (original) The method of claim 1, wherein the patterned, re-flowable masking

layer is re-flowed by a thermal cycle.

13. (original) The method of claim 1, wherein the patterned, re-flowable masking

layer is re-flowed by a thermal cycle conducted at a temperature of from about 850

to 950°C for from about 900 to 1800 seconds.

14. (original) A method of forming small features, comprising the steps of:

providing a substrate having a dielectric layer formed thereover;

forming a spacing layer over the dielectric layer; the spacing layer having a

thickness equal to the thickness of the small feature to be formed;

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forming a patterned, re-flowable masking layer over the spacing layer; the masking layer having a first opening with a width "L" of from about 1000 to 1800Å;

re-flowing the patterned, re-flowable masking layer to form a patterned, re-flowed masking layer having a re-flowed first opening with a lower width "l" of from about 200 to 800Å;

etching the spacing layer to the dielectric layer using the patterned, reflowed masking layer as a mask to form a second opening within the etched spacing layer having a width equal to the re-flowed first opening lower width "l";

removing the patterned, re-flowed masking layer;

forming a small feature material within the second opening;

removing any excess small feature material above the etched spacing layer; and

removing the etched spacing layer to form the small feature comprised of the small feature material.

15. (original) The method of claim 14, wherein the substrate is formed of a material selected from the group consisting of silicon and silicon germanium; the dielectric layer is formed of a material selected from the group consisting of grown silicon oxide and deposited silicon oxide; the spacing layer is formed of a material selected from the group consisting of silicon nitride and silicon oxynitride; the masking layer is formed of doped oxide; and the small feature material is formed of a

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material selected from the group consisting of polysilicon, polysilicon germanium

(poly SiGe), titanium, molybdenum, nickel and stacks comprised of the above

materials.

16. (original) The method of claim 14, wherein the substrate is formed of silicon; the

dielectric layer is formed of silicon oxide; the spacing layer is formed of silicon

nitride; the masking layer is formed of a doped oxide; and the small feature

material is formed of polysilicon.

17. (original) The method of claim 14, wherein the pre-re-flowed first opening

width "L" has a width of from about 1200 to 1500Å and the re-flowed first opening

lower width "l" has a width of from about 250 to 800Å.

18. (original) The method of claim 14, wherein the dielectric layer is from about 15 to

100Å thick; and the masking layer is from about 400 to 2000Å thick.

19. (original) The method of claim 14, wherein the dielectric layer is from about 20

to 50Å thick; and the masking layer is from about 1000 to 1500Å thick.

20. (original) The method of claim 14, including the step of forming a gate dielectric

layer liner within the second opening.

21. (original) The method of claim 14, including the step of forming a gate dielectric

layer liner within the second opening; the gate dielectric layer being formed of a

material selected from the group consisting of silicon oxide, nitrided silicon oxide, a

silicon oxide/nitride stack and a high-k dielectric material such as aluminum oxide.

22. (original) The method of claim 14, including the step of forming a gate dielectric

layer liner within the second opening; the gate dielectric layer liner having an EOT

thickness of from about 7 to 20Å.

23. (original) The method of claim 14, including the step of forming a gate dielectric

layer liner within the second opening; the gate dielectric layer liner having an EOT

thickness of from about 10 to 16Å.

24. (original) The method of claim 14, wherein the patterned, re-flowable masking

layer is re-flowed by a thermal cycle.

25. (original) The method of claim 14, wherein the patterned, re-flowable masking

layer is re-flowed by a thermal cycle conducted at a temperature of from about 850

to 950°C for from about 900 to 1800 seconds.

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26. (original) A method of forming small features, comprising the steps of:

providing a substrate having a dielectric layer formed thereover;

forming a spacing layer over the dielectric layer; the spacing layer having a thickness equal to the thickness of the small feature to be formed;

forming a patterned, re-flowable masking layer over the spacing layer; the masking layer having a first opening with a width "L" of from about 1000 to 1800Å;

re-flowing the patterned, re-flowable masking layer to form a patterned, re-flowed masking layer having a re-flowed first opening with a lower width "l" of from about 200 to 800Å;

etching the spacing layer to the dielectric layer using the patterned, reflowed masking layer as a mask to form a second opening within the etched spacing layer having a width equal to the re-flowed first opening lower width "l";

removing the patterned, re-flowed masking layer;

forming a gate dielectric layer liner within the second opening

forming a small feature material within the gate dielectric layer lined second opening;

removing any excess small feature material and gate dielectric layer liner above the etched spacing layer; and

removing the etched spacing layer to form the small feature comprised of the small feature material.

27. (original) The method of claim 26, wherein the substrate is formed of a material

selected from the group consisting of silicon and silicon germanium; the dielectric

layer is formed of a material selected from the group consisting of grown silicon

oxide and deposited silicon oxide; the spacing layer is formed of a material selected

from the group consisting of silicon nitride and silicon oxynitride; the masking

layer is formed of doped oxide; and the small feature material is formed of a

material selected from the group consisting of polysilicon, polysilicon germanium

(poly SiGe), titanium, molybdenum, nickel and stacks comprised of the above

materials.

28. (original) The method of claim 26, wherein the substrate is formed of silicon; the

dielectric layer is formed of silicon oxide; the spacing layer is formed of silicon

nitride; the masking layer is formed of a doped oxide; and the small feature

material is formed of polysilicon.

29. (original) The method of claim 26, wherein the pre-re-flowed first opening

width "L" has a width of from about 1200 to 1500Å and the re-flowed first opening

lower width "l" has a width of from about 250 to 800Å.

30. (original) The method of claim 26, wherein the dielectric layer is from about15 to

100Å thick; and the masking layer is from about 400 to 2000Å thick.

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31. (original) The method of claim 26, wherein the dielectric layer is from about 20

to 50Å thick; and the masking layer is from about 1000 to 1500Å thick.

32. (original) The method of claim 26, wherein the gate dielectric layer is formed of

a material selected from the group consisting of silicon oxide, nitrided silicon oxide,

a silicon oxide/nitride stack and a high-k dielectric material such as aluminum

oxide.

33. (original) The method of claim 26, wherein the gate dielectric layer liner has an

EOT thickness of from about 7 to 20Å.

34. (original) The method of claim 26, wherein the gate dielectric layer liner has an

EOT thickness of from about 10 to 16Å.

35. (original) The method of claim 26, wherein the patterned, re-flowable masking

layer is re-flowed by a thermal cycle.

36. (original) The method of claim 26, wherein the patterned, re-flowable masking

layer is re-flowed by a thermal cycle conducted at a temperature of from about 850

to 950°C for from about 900 to 1800 seconds.

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37. (new) A method of forming small features, comprising the steps of: providing a substrate having a dielectric layer formed thereover;

forming a spacing layer over the dielectric layer;

forming a patterned, re-flowable oxide masking layer over the spacing layer;

5 the masking layer having a first opening with a first width;

re-flowing the patterned, re-flowable oxide masking layer to form a patterned, re-flowed oxide masking layer having a re-flowed first opening with a lower width; the re-flowed first opening lower width being less than the first width of the pre-re-flowed first opening;

etching the spacing layer to the dielectric layer using the patterned, reflowed oxide masking layer as a mask to form a second opening within the etched spacing layer having a width equal to the re-flowed first opening lower width;

removing the patterned, re-flowed oxide masking layer; and forming a small feature material within the second opening.

38. (new) The method of claim 37, wherein the spacing layer has a thickness equal to the thickness of the small feature to be formed.

39. (new) The method of claim 37, including the further steps of:

removing any excess small feature material above the etched spacing layer; and

removing the etched spacing layer to form the small feature comprised of the

small feature material.

40. (new) The method of claim 37, wherein the substrate is formed of a material selected

from the group consisting of silicon and silicon germanium; the dielectric layer is

formed of a material selected from the group consisting of grown silicon oxide and

deposited silicon oxide; the spacing layer is formed of a material selected from the

group consisting of silicon nitride and silicon oxynitride; the oxide masking layer is

formed of doped oxide; and the small feature material is formed of a material selected

from the group consisting of polysilicon, polysilicon germanium (poly SiGe), titanium,

molybdenum, nickel and stacks comprised of the above materials.

41. (new) The method of claim 37, wherein the substrate is formed of silicon; the

dielectric layer is formed of silicon oxide; the spacing layer is formed of silicon nitride;

the oxide masking layer is formed of a doped oxide; and the small feature material is

formed of polysilicon.

42. (new) The method of claim 37, wherein the pre-re-flowed first opening first width

has a width of from about 1000 to 1800Å and the re-flowed first opening lower width

has a width of from about 200 to 800Å.

43. (new) The method of claim 37, wherein the pre-re-flowed first opening first width

has a width of from about 1200 to 1500Å and the re-flowed first opening lower width

has a width of from about 250 to 800Å.

44. (new) The method of claim 37, wherein the dielectric layer is from about 15 to 100Å

thick; and the masking layer is from about 400 to 2000Å thick.

45. (new) The method of claim 37, wherein the dielectric layer is from about 20 to 50Å

thick; and the masking layer is from about 1000 to 1500Å thick.

46. (new) The method of claim 37, including the step of forming a gate dielectric layer

liner within the second opening.

47. (new) The method of claim 37, including the step of forming a gate dielectric layer

liner within the second opening; the gate dielectric layer being formed of a material

selected from the group consisting of silicon oxide, nitrided silicon oxide, a silicon

oxide/nitride stack and a high-k dielectric material such as aluminum oxide.

48. (new) The method of claim 37, including the step of forming a gate dielectric layer

liner within the second opening; the gate dielectric layer liner having an equivalent

oxide thickness (EOT) thickness of from about 7 to 20Å.

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49. (new) The method of claim 37, including the step of forming a gate dielectric layer

liner within the second opening; the gate dielectric layer liner having an equivalent

oxide thickness (EOT) thickness of from about 10 to 16Å.

50. (new) The method of claim 37, wherein the patterned, re-flowable masking layer is

re-flowed by a thermal cycle.

51. (new) The method of claim 37, wherein the patterned, re-flowable masking layer is

re-flowed by a thermal cycle conducted at a temperature of from about 850 to 950°C for

from about 900 to 1800 seconds.